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☐ DECL ☒ REVW ON 2110
 EXT BYND 6 YRS BY SAMC
 REASON 3 & (3)

PROGRESS REPORT
 FOR
 MONTH OF JULY 1958

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BROADBAND ANTENNAS, FILTERS AND DETECTORS

Purpose: To determine the feasibility of developing a Broadband System for the 50 mc to 40 kmc range.

Personnel: Electrical Engineers:

25X1

Status: The effort during the month of July was devoted primarily to an investigation of the characteristics of commercially available crystals and their holders. The purpose of this was twofold: (1) to determine if commercially available products will satisfy the requirements of the system and (2) to determine which companies are well versed in broadband crystal work, in case it is found necessary to subcontract special crystal holders. Not all this information has been received and consequently no conclusions have been reached. It will not be possible to draw conclusions or make recommendations on this project until the customer furnishes information on video band width, tangential sensitivity, etc., which we have requested.

Some thought has been given to a simple band pass filter system for the periodic antennas and the horn antennas. No investigation into the characteristics of these systems was undertaken in July.

Future Plans: The detector investigation will continue. Work will be started on the simple filter systems and if enough information is received from the customer, effort will be directed towards determining the minimum number of antennas required.

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